

Appendix A

Project Costs

Project Summary Report

Project Name: Operating unit 3-13, Group 6, Buried Gas Cylinders RD/RA WP
SP6
Project Location: **INTEC** Buried Gas *Cylinder* Sites 84, 94
Estimate Number: **2951-C**

Client: **R. L. Davison**
Prepared By: **J. Folker**
Estimate Type: Project Support

<u>Level</u>	<u>Group</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Continaency %</u>	<u>TOTAL</u>
5000		PROJECT MANAGEMENT	\$189,917	\$4,938	\$21,432	11.00%	\$216,287
1020		--Perform Task Supervision	\$111,279	\$2,893	\$12,558	11.00%	\$126,731
1025		--Perform Construction Management for Remediation Subcontract	\$78,638	\$2,045	\$8,874	11.00%	\$89,557
2000		ENGINEERING	\$49,982	\$1,300	\$5,640	11.00%	\$56,922
1030		--Update RD/RA Documents	\$10,274	\$267	\$1,159	11.00%	\$11,701
1045		-Comment Incorporation Group 6 RD/RA WP	\$4,347	\$113	\$491	11.00%	\$4,951
1150		--Prepare Draft Remedial Action Report	\$16,038	\$417	\$1,810	11.00%	\$18,265
1155		--ORB Review of Draft RA Report	\$10,689	\$278	\$1,206	11.00%	\$12,173
1170		--Incorporate Agency Comments Draft RA Report	\$4,347	\$113	\$491	11.00%	\$4,951
1185		--Incorporate Agency Comments Final RA Report	\$4,286	\$111	\$484	11.00%	\$4,881
8000		PROCUREMENT	\$15,330	\$399	\$1,730	11.00%	\$17,459
1060		--Develop Bid & Award Site 84 Remediation Activity	\$15,330	\$399	\$1,730	11.00%	\$17,459
9000		CONSTRUCTION	\$275,229	\$14,780	\$108,806	37.52%	\$398,815
1055		--Prepare Group 6 Construction Documentation	\$24,555	\$1,319	\$9,707	37.52%	\$35,580
1065		--Mobilize Group 6 Contractor for Site 84	\$34,189	\$1,836	\$13,516	37.52%	\$49,541
1070		--Excavation/Assessment Group 6 by Subcontractor	\$55,279	\$2,968	\$21,854	37.52%	\$80,101
1075		--Treatment & Disposal Group 6 Site 84 by Subcontractor	\$15,150	\$814	\$5,989	37.52%	\$21,953
1080		--Perform Group 6 Geophysical Sweep	\$8,908	\$478	\$3,522	37.52%	\$12,908
1090		--Perform Post Sampling Sites 84 & 94	\$2,890	\$155	\$1,143	37.52%	\$4,188
1100		--Sample Analysis and Validation	\$28,454	\$1,528	\$11,249	37.52%	\$41,231
1110		--Site Reclamation for Site 84 & 94	\$54,440	\$2,923	\$21,522	37.52%	\$78,885
1095		--Demobilization	\$19,355	\$1,039	\$7,651	37.52%	\$28,045

INEEL

11/06/2003 16:43:57

Estimating Services Department

Page No. 1

Project Summary Report

Project Name: Operating unit 3-13, Group 6, Buried Gas Cylinders **RD/RA WP**
SP6
 Project Location: **INTEC** Buried Gas Cylinder Sites 84, 94
 Estimate Number: **2951-C**

Client: R. L. Davison
 Prepared By: J. Folker
 Estimate Type: Project Support

<u>Level</u>	<u>Group</u>	<u>Description</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Continaency</u>	<u>Continaency %</u>	<u>TOTAL</u>
1120		--Perform Prefinal Inspection	\$5,490	\$295	\$2,170	37.52%	\$7,955
1125		--Prepare Prefinal Inspection Report	\$2,404	\$129	\$951	37.52%	\$3,484
1130		--ORB Review of Prefinal Inspection Report	\$5,862	\$315	\$2,317	37.52%	\$8,494
1140		--Perform Corrective Actions	\$16,228	\$871	\$6,415	37.52%	\$23,515
1145		--Agency Final Inspection	\$2,025	\$109	\$800	37.52%	\$2,934
GAPIF		BBWI MATERIAL HANDLING FEE	\$510	\$0	\$56	11.00%	\$566
10000		ICP ALLOCATION	\$88,236	\$4,738	\$34,884	37.52%	\$127,859
Total INTEC CERCLA Remediation of Gas Cylinder Sites- Group 6 RDIRA WP			\$619,205	\$26,154	\$172,549	26.74%	\$817,909

INEEL

Appendix B

Project Schedule

Activity ID	Activity Description	Orig	Start	Finish
1010	Completed Site 94 Remediation	1	29SEP00A	03MAY01A
1020	Stop Work Issued on Site 84 Activities	0	04MAY01A	21AUG01A
1000	POST SAMPLING ANALYSIS & VALIDATION SITE 94	1	23MAY01A	21AUG01A
1025	AGENCY RECOMMENDATION ON 94 SAMPLE DATA	0	24SEP01A	25NOV03
1030	UPDATE RD/RA DOCUMENTS	40	01OCT03	25NOV03
1055	PREPARE G6 CONSTRUCTION DOCUMENTATION	87	03NOV03*	02MAR04
1035	SUBMIT REVISED RD/RA WP TO AGENCIES	1	28NOV03	26NOV03
1040	AGENCY REVIEW REVISED RD/RA WP	22	27NOV03	26DEC03
1060	DEV BID & AWARD SITE 84 REMEDIATION ACTIV	62	02DEC03*	25FEB04
1045	COMMENT INCORPORATION GRP 6 RD/RA WP	22	29DEC03	27JAN04
1050	FINALIZED GRP 6 REVISED RD/RA WP SENT TO AGENC.	1	28JAN04	28JAN04
1065	MOBILIZE G6 CONTRACTOR FOR SITE 84	5	03MAR04*	09MAR04
1085	AGENCY NOTIFICATION 14-DAYS PRIOR TO SAMPLING	0	09MAR04	09MAR04
1070	EXCAVATION/ASSESSMENT G6 BY SUB	50	10MAR04	18MAR04
1075	TREATMENT & DISPOSAL G6 SITE 84 BY SUB	60	19MAY04	10AUG04
1080	PERFORM G6 GEOPHYSICAL SWEEP	5	19MAY04	25MAY04
1090	PERFORM POST SAMPLING SITE 84&94	5	26MAY04	01JUN04
1100	SAMPLE ANALYSIS AND VALIDATION	50	02JUN04	10AUG04
1105	SUBMIT SAMPLING DATA TO AGENCIES	0	10AUG04	10AUG04
1200	AGENCY REVIEW OF SAMPLING DATA	10	11AUG04	24AUG04
1107	REC'D AGENCY COMMENTS ON SAMPLING DATA	0	24AUG04	24AUG04
1110	SITE RECLAMATION FOR SITE 84 & 94	19	25AUG04	20SEP04
1095	DEMOLITIZATION	8	21SEP04	30SEP04
1115	REMEDIAL ACTION COMPLETE	0	30SEP04	30SEP04
1120	PERFORM PREFINAL INSPECTION	3	01OCT04*	05OCT04
1125	PREPARE PREFINAL INSPECTION REPORT	15	06OCT04	26OCT04
1130	ORB REVIEW OF PREFINAL INSPECTION REPORT	20	27OCT04	23NOV04
1135	SUBMIT DRAFT PREFINAL INSPECTION RPT TO AGENCIES	0	23NOV04	23NOV04
1140	PERFORM CORRECTIVE ACTIONS	20	24NOV04	21DEC04
1145	AGENCY FINAL INSPECTION	5	22DEC04	28DEC04
1155	ORB REVIEW OF DRAFT RA RPT	20	27JAN05	23FEB05
1160	SUBMIT DRAFT RA REPORT TO AGENCIES	0	23FEB05	23FEB05
1165	AGENCY REVIEW OF DRAFT RA REPORT	45	24FEB05	09APR05
1170	INCORPORATE COMMENTS	45	10APR05	24MAY05
1175	SUBMIT DRAFT FINAL RA RPT	0	24MAY05	24MAY05
1180	AGENCY REVIEW OF DRAFT FINAL RA RPT	15	25MAY05	08JUN05
1185	INCORPORATE COMMENTS	15	09JUN05	23JUN05
1190	SUBMIT FINAL REMEDIAL ACTION REPORT	0	23JUN05	23JUN05
1195	OU-3-13 GROUP 6 PROJECT COMPLETE	1	24JUN05	24JUN05

Appendix C
Prefinal Inspection Checklist

DRAFT PREFINAL CHECKLIST

<u>Inspection Items</u>		Incomplete	Complete	
Item	RD/RA Section			Comments/Corrective Actions
Site Survey and Sampling				
Magnetometer/Geophysical surveys have been completed to verify all cylinders have been removed from areas CPP-84 and CPP-94.	3.3.3			
All anomalies identified from surveys have been addressed.	3.3.3			
Soil sampling has been conducted of the excavation floor in accordance with the requirements of the <i>Preliminary Characterization Plan</i> (INEEL/EXT-2000-00398)	7.4.1			
Soil samples have been analyzed for appropriate COPCs at an approved off-site laboratory.	7.4.1 and 7.4.2			
Concentrations of soil contaminants in the excavation area are within acceptable remediation limits.	7.6			

<u>Inspection Items</u>		Incomplete	Complete	
Item	RD/RA Section			Comments/Corrective Actions
Backfill and Grading				
Backfill material used in the excavated areas is suitable to minimize the potential for subsidence.	6.16			
Backfilling was completed by placing the backfill material into the excavation area in 8-inch loose lifts then compacting it to approximately 90-percent of maximum dry density.	7.6			
Site has been graded back to the original grade.	7.6			
The site has been revegetated with native species in accordance with the <i>Guidelines for Revegetation of Disturbed Sites at the INEEL</i> (Anderson and Shumar 1989)	7.6			

<u>Inspection Items</u>		Incomplete	Complete	
Item	RD/RA Section			Comments/Corrective Actions
Waste Management				
All cylinders amenable to on-site treatment have been treated.	3.1.3 and 7.3			
Cylinders not amenable to on-site treatment are either being managed in complaint on-site storage areas, or have been shipped to an appropriate off-site facility.	WMP 6.6			
Empty cylinders meeting the CFA Landfill Waste Accentance Criteria have been disnosed of.	3.1.3 and 7.5			
Empty cylinders pending disposition in the ICDF are being managed in compliant storage.	WMP 6.3			
All other waste items generated during the course of the removal action have been properly characterized and managed.	WMP3.1.7			
All equipment used to complete the removal action has been properly decontaminated and has been removed from the site.	6.15			
Any spills and releases that may have occurred during the course of the project were properly reported and have been appropriately cleaned up.	6.17			
<u>Additional Comments:</u>			Concurrence	Date
			US EPA:	

<u>Inspection Items</u>		Incomplete	Complete	
Item	RD/RA Section			Comments/Corrective Actions
			IDEQ:	
			DOE-ID:	
			BBWI:	